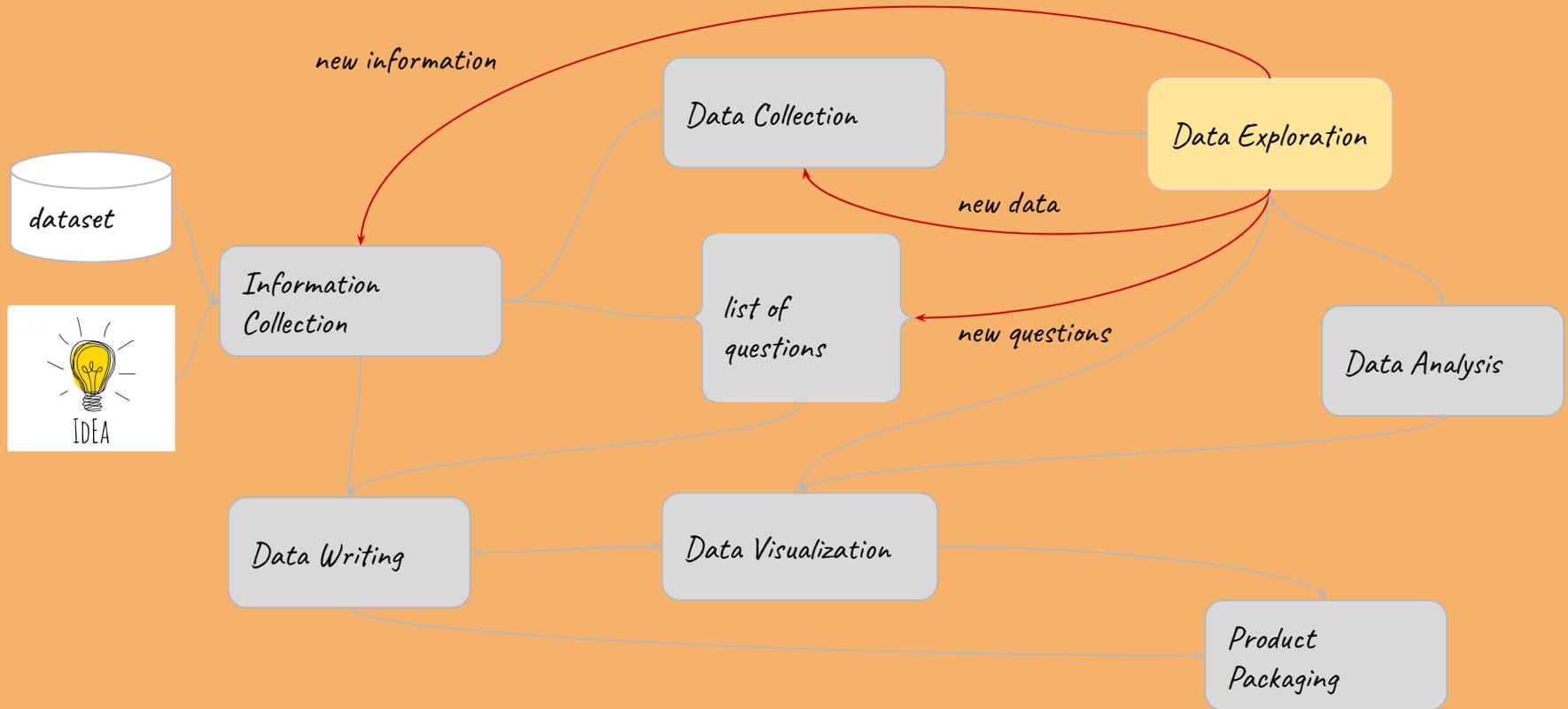




Data Exploration

with Tableau

Data Collection



Data Exploration: Syntax Targets

L'esplorazione dei dati consente di capire cosa si trova in un set di dati

- dimensioni o quantità di dati,
- completezza dei dati,
- correttezza dei dati,
- possibili relazioni tra elementi di dati o file / tabelle nei dati.

Data Exploration: Semantic Targets

L'esplorazione dei dati consente di scoprire aspetti interessanti nascosti nei dati.

- Necessità di trovare nuovi dati
- Nuove domande che possono sostituire le precedenti

Data Exploration

L'esplorazione dei dati è un **processo iterativo**

Si parte da una domanda generale a cui si tenta di dare una risposta

Si passa a domande via via più particolari

<https://www.start.umd.edu/gtd/>

Global Terrorism Database

Information on more than 190,000 Terrorist Attacks

Access the GTD

What is GTD?

The GTD™ is an open-source database

provides information on domestic and international terrorist events around the world since 1970,

includes more than 200,000 events

“The threatened or actual use of illegal force and violence by a non-state actor to attain a political, economic, religious, or social goal through fear, coercion, or intimidation.”

ACCESS THE GTD

GTD Access

SEARCH & BROWSE

DOWNLOAD

GTD 1970 – 2019

🕒 1 year, 7 months, 1 day, 16 hours, 49 minutes ago

Data on terrorist attacks between 1970 – 2019 updated as...

Download the GTD or Contact GTD Team

We welcome questions and feedback from users. For the quickest answers, please consult our [FAQ page](#) to see if your question has already been addressed before submitting it using the form below.

* = Required Field

* **Action:**

To download the data and documentation select 'Download full GTD dataset' from the Action list above.

Title:
(e.g., Mr., Ms., Dr., Gen., etc.)

* **First Name:**

* **Last Name:**

Institution:

* **E-Mail Address:**



DOWNLOAD ATTACHMENT - GLOBALTERRORISMDB_0919DIST

Numeri dal dataset

191.464 Attacchi terroristici registrati fino al 31-12-2018

201.183 Attacchi terroristici registrati fino al 31-12-2019

Modello dei dati

Data

Luogo

Organizzazione
Terroristica



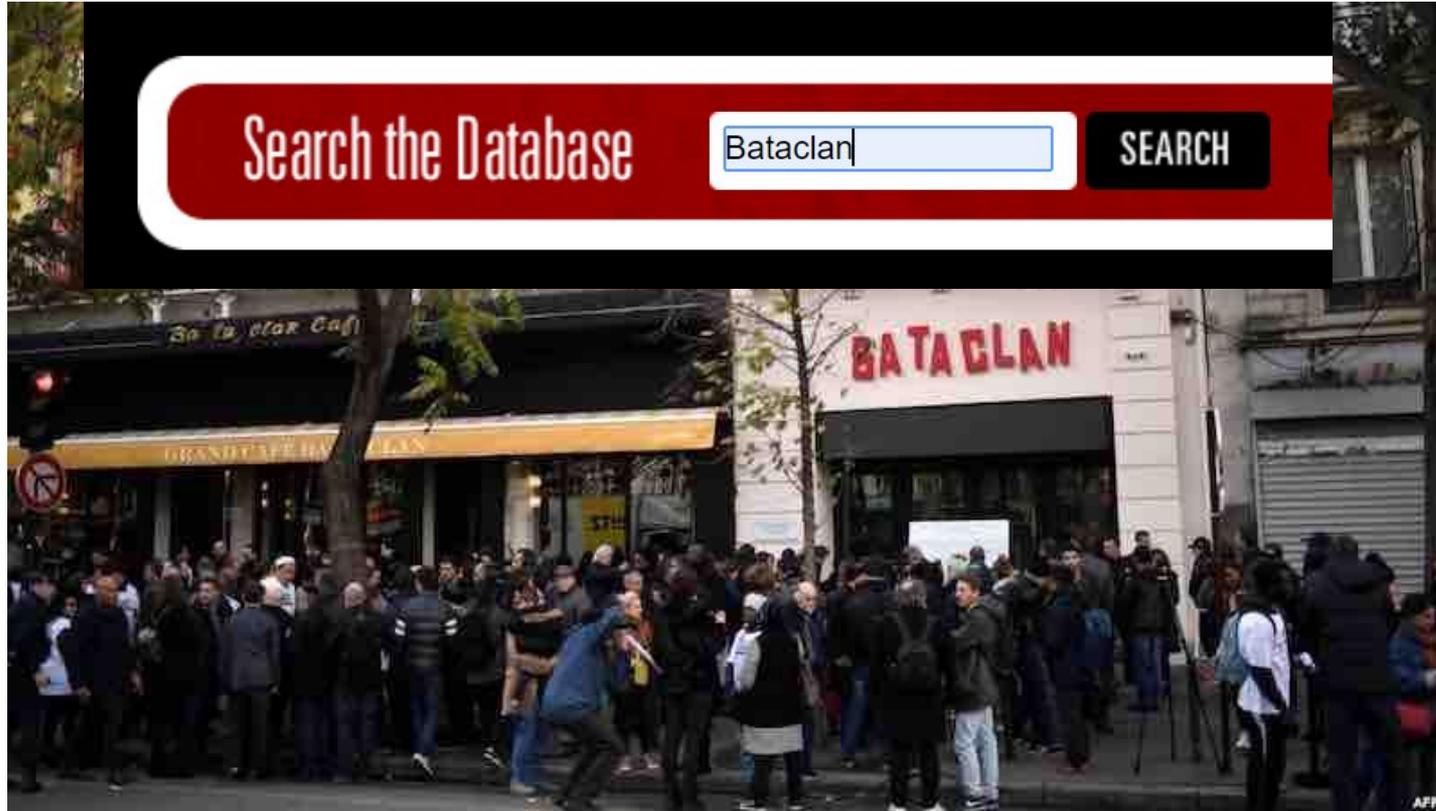
Tipo
attacco

Tipo del
bersaglio

Tipo arma
utilizzata

Danni

Bataclan - Parigi - 13 novembre 2015



Date

year:2015
month: 11
day:13

Place

region: Western Europe
country: France
provincestate: Ile-deFrance
city: Paris
lat: 48,856644
lng: 2,34233

Group Name

Islamic State of Iraq and the Levant (ISIL)

Summary

Three suicide bombers opened fire on Bataclan concert hall, where an Eagles of Death Metal concert was being held, in 11th arrondissement, Paris, France

...

Damages

Num kill: 93
Num Attackers Killed: 3
Num Wounded: 217

Target Type

Business
Private Citizens & Property

Weapon Type

Explosives: Suicide (carried bodily by human being) ...

Attack Type

Hostage Taking (Barricade Incident)
Bombing/Explosion

www.TABLEAU.com

Requesting an academic license

[Programmi accademici di Tableau](#)

[Tableau per studenti](#)

[Tableau per l'insegnamento](#)

Caratteristiche

Tableau Software è una compagnia sw con centro a Seattle.

Fondata nel 2003, ha circa 3500 impiegati.

Produce sw di **data visualization interattivo** focalizzata su business intelligence

Prodotti



Tableau Prep
Builder



Tableau Desktop



Tableau Server



Tableau Online

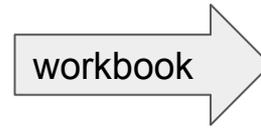


Tableau Mobile

Tableau Reader

Browser

+tableau⁺public

Create

Publish

Read

Learning Tableau Desktop



Tableau Desktop and Web Authoring

HTML | PDF | WINDOWS 64-BIT HELP | MAC OS HELP

Help

What's New

Get Started

Connect to and Prepare Data

Build Charts and Analyze Data

Present Your Work

Publish Data Sources and Workbooks

Using Tableau on the Web

Reference

Manuali in
vari formati

Tutorials and Guides

Getting Started with Tableau Desktop

Tableau Desktop and Tableau Prep
Deployment Guide

Training Videos

Tableau Training Videos

Whitepapers

Tableau Whitepapers

Knowledge Base

Tableau Knowledge Base

Community Forums

Tableau Community Forums

Tutorial and
Guides

Video Tutorials (esiste
anche la versione in
italiano)



Connect

To a File

Microsoft Excel

Text file

JSON file

Microsoft Access

PDF file

Spatial file

Statistical file

More...

To a Server

Tableau Server

Microsoft SQL Server

MySQL

Oracle

Amazon Redshift

More... >

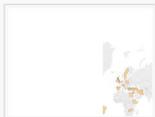
Saved Data Sources

Sample - EU Superstore

Sample - Superstore

World Indicators

Open



Global Terrorism DB



GTD_Global Terroris...

Open a Workbook

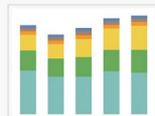
Sample Workbooks



Superstore



Regional



World Indicators

More Samples

Discover

▶ Training

Getting Started

Connecting to Data

Visual Analytics

Understanding Tableau

More training videos...

📁 Resources

Get Tableau Prep

Blog - Applications are open! Why you should apply today to speak at TC19

Forums

VIZ OF THE WEEK

Spell-O-L: Hilarious Misspellings in Reddit Comments →



GYLENHAAL

164 20

gylennh41

gylennh41

gylennh41

gylennh41



KARBASHIAN

120 22

kardashian442

kardashian435

kardashian47

kardashian47



Data (globalterrorismdb_07)

Filters
0 | Add

Creazione di nuove colonne di dati

Connections

Add

globalterro...db_0718dist

Microsoft Excel

Data

Sheets

 Cleaned with Data Interpreter[Review the results.](#) (To undo changes, clear the check box.)

Data

Data A1:EE10000

New Union

Sort fields Modified

 Show aliases Show hidden fields 1.000 rows

#	#	#	#	Abc	#	#	#	#
Data eventid	Data iyear	Data imonth	Data iday					
197.000.000.001	1970		7					
197.000.000.002	1970		0					
197.001.000.001	1970		1					
197.001.000.002	1970		1					
197.001.000.003	1970		1					
197.001.010.002	1970		1					
197.001.020.001	1970		1					
197.001.020.002	1970		1					
197.001.020.003	1970		1	2	null			
197.001.030.001	1970		1	3	null			
197.001.050.001	1970		1	1	null			
197.001.060.001	1970		1	6	null			
197.001.080.001	1970		1	8	null			
197.001.090.001	1970		1	9	null	0	null	217 United States
197.001.090.002	1970		1	9	null	0	null	217 United States
197.001.100.001	1970		1				null	499 East Germany (GDR)

$$\text{DATE}(\text{STR}([\text{imonth}]) + "-" + \text{STR}([\text{iday}]) + "-" + \text{STR}([\text{iyear}])))$$

The calculation is valid.

Apply

OK

Date needs
mm-dd-yyyy format



Connections

Add

globalterro...db_0718dist
Microsoft Excel

Sheets

🔍

 Cleaned with Data Interpreter
[Review the results.](#) (To undo changes, clear the check box.)Data
Data A1:EE10000

New Union

Data (globalterrorismdb_0718dist)

Data

Sort fields Modified

 Show aliases Show

# Data eventid	# Data year	# Data imonth	# Data iday	📅 Calculation Date	Abc Data approxdate	# Data extended	📅 Data resolution	# Data country	# Data country
197.000.000.001	1.970	7	2	07/02/1970	null	0	null	160	Philippines
197.000.000.002	1.970	0	0	null	null	0	null	78	Greece
197.001.000.001	1.970	1	0	null	null	0	null	101	Japan
197.001.000.002	1.970	1	0	null	null	0	null	217	United States
197.001.000.003	1.970	1	0	null	null	0	null	218	Uruguay
197.001.010.002	1.970	1	1	01/01/1970	null	0	null	217	United States
197.001.020.001	1.970	1	2	01/02/1970	null	0	null	217	United States
197.001.020.002	1.970	1	2	01/02/1970	null	0	null	217	United States
197.001.020.003	1.970	1	2	01/02/1970	null	0	null	217	United States
197.001.030.001	1.970	1	3	01/03/1970	null	0	null	217	United States
197.001.050.001	1.970	1	1	01/01/1970	null	0	null	217	United States
197.001.060.001	1.970	1	6	01/06/1970	null	0	null	217	United States
197.001.080.001	1.970	1	8	01/08/1970	null	0	null	98	Italy
197.001.090.001	1.970	1	9	01/09/1970	null	0	null	217	United States
197.001.090.002	1.970	1	9	01/09/1970	null	0	null	217	United States
197.001.100.001	1.970	1	10	01/10/1970	null	0	null	499	East Germany

Connection

 Live Extract

Extract will include all data.

Edit

Refresh

Filters

0

Add

Imposta "live" se prevedi che i dati si possano modificare nel tempo

Data Source

Sheet 1



Data Analytics Pages Columns Rows

Data (globalterrorismdb_0...

Dimensions

- country_txt
- Date
- dbsource
- divert
- gname
- gname2
- gsubname
- hostkidoutcome_txt
- kidhijcountry
- location
- motive
- natlty1_txt
- natlty2_txt
- natlty3_txt
- propcomment
- propexter..._txt

Measures

- INT_BEG
- INT_LOG
- INT_MISC
- ishostkid
- iyer
- latitude
- longitude
- multiple
- natlty1
- natlty2
- natlty3
- ndays
- nhostkid

Filters

Marks

Automatic

Color Size Text

Detail Tooltip

Sheet 1

Drop field here

Drop field here

Drop field here

Data Source Sheet 1

Dimensions Vs Measures

Ex Dimensioni: date, categorie, luoghi geografici

Ex **Misure:** numero di attacchi, numero di persone uccise, danni

Le Dimensioni costituiscono il dominio dei nostri grafici, le ascisse, le righe

Le Misure costituiscono il codominio dei nostri grafici, le ordinate, le colonne

Numero di persone uccise (**misura**) nel tempo (**dimensione**)

Numero di attacchi (**misura**) nei vari stati (**dimensione**)

Danni complessivi (**misura**) commessi dai vari gruppi (**dimensione**)

Tableau automaticamente mette tutti i campi numerici tra le **misure** e i restanti tra le **dimensioni**

Domande

Il terrorismo è un fenomeno in espansione?

Quali paesi sono maggiormente interessati?

Qual'è il gruppo terroristico più attivo?

Qual'è stato l'attentato terroristico più nefasto?

Numero di persone uccise ogni anno in
attacchi terroristici

Measures

- # crit3
- # doubtterr
- # eventid
- # extended
- # guncertain1
- # guncertain2
- # hostkidoutcome
- # iday
- # imonth
- # individual
- # INT_ANY
- # INT_IDEO
- # INT_LOG
- # INT_MISC
- # ishostkid
- # **iyear**
- 🌐 latitude
- 🌐 longitude

Data Source Sheet 1

Add to Sheet

Duplicate

Rename

Hide

Create ▶

Transform ▶

Convert to Discrete

Convert to Dimension

Change Data Type ▶

Geographic Role ▶

Default Properties ▶

Group by ▶

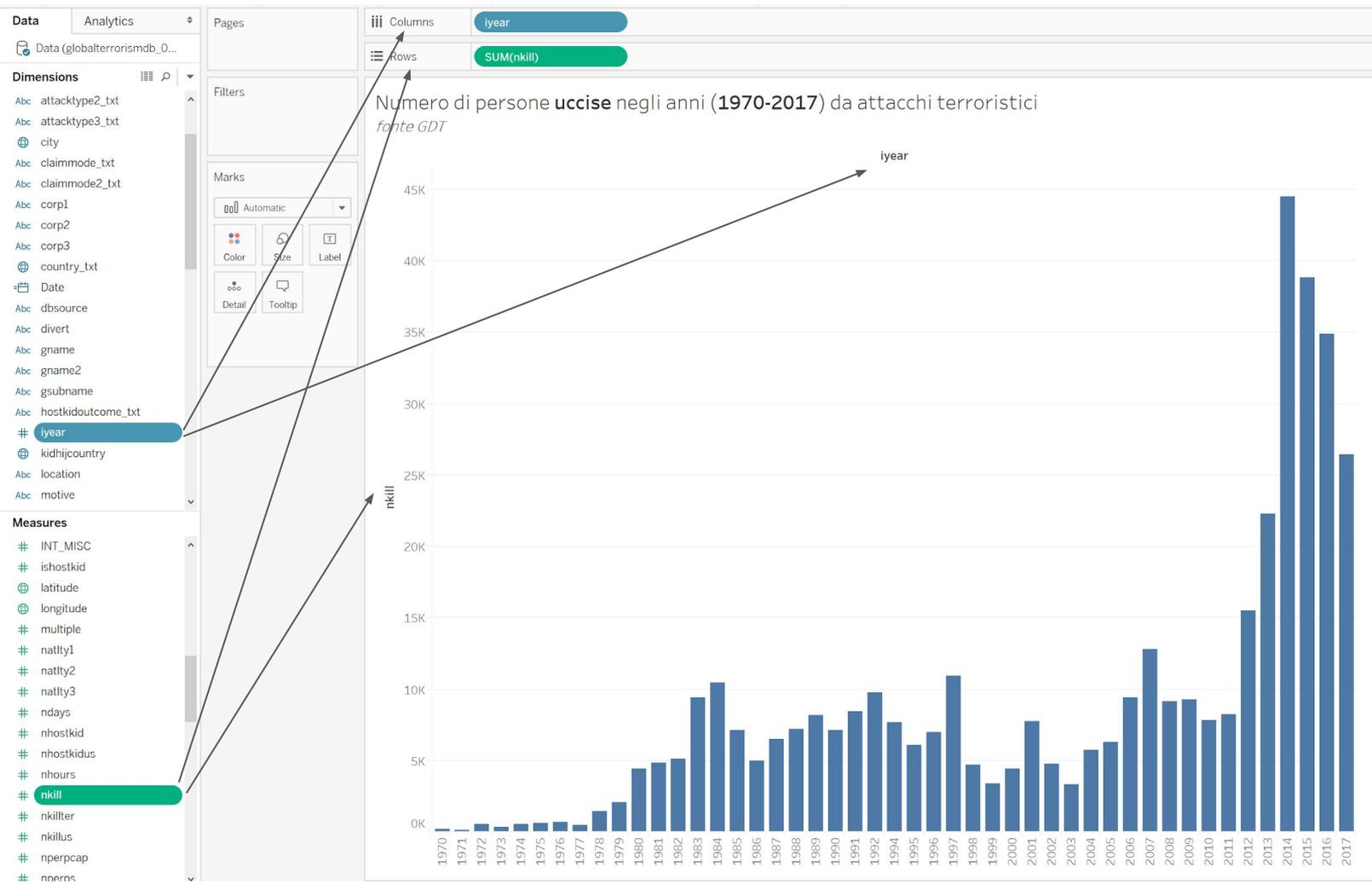
Folders ▶

Replace References...

Describe...

L'anno automaticamente è stato posizionato tra le misure in quanto il software mette tutti i numeri tra le misure.

Si converte a dimensione



Numero di persone uccise in ogni paese

Dimensions

- Abc attacktype2_txt
- Abc attacktype3_txt
- city
- Abc claimmode_txt
- Abc claimmode2_txt
- Abc corp1
- Abc corp2
- Abc corp3
- country_txt**
- Date
- Abc dbsource
- Abc divert
- Abc gname
- Abc gname2
- Abc gsubname
- Abc hostkidoutcome_txt
- # iyear
- # kidhijcountry
- Abc location
- Abc motive

Measures

- # INT_MISC
- # ishostkid
- latitude
- longitude
- # multiple
- # natly1
- # natly2
- # natly3
- # ndays
- # nhostkid
- # nhostkidus
- # nhours
- # nkill**
- # nkiller
- # nkillus
- # nperpcap
- # nperpcap

Automatic

Color Size Label

Detail Tooltip

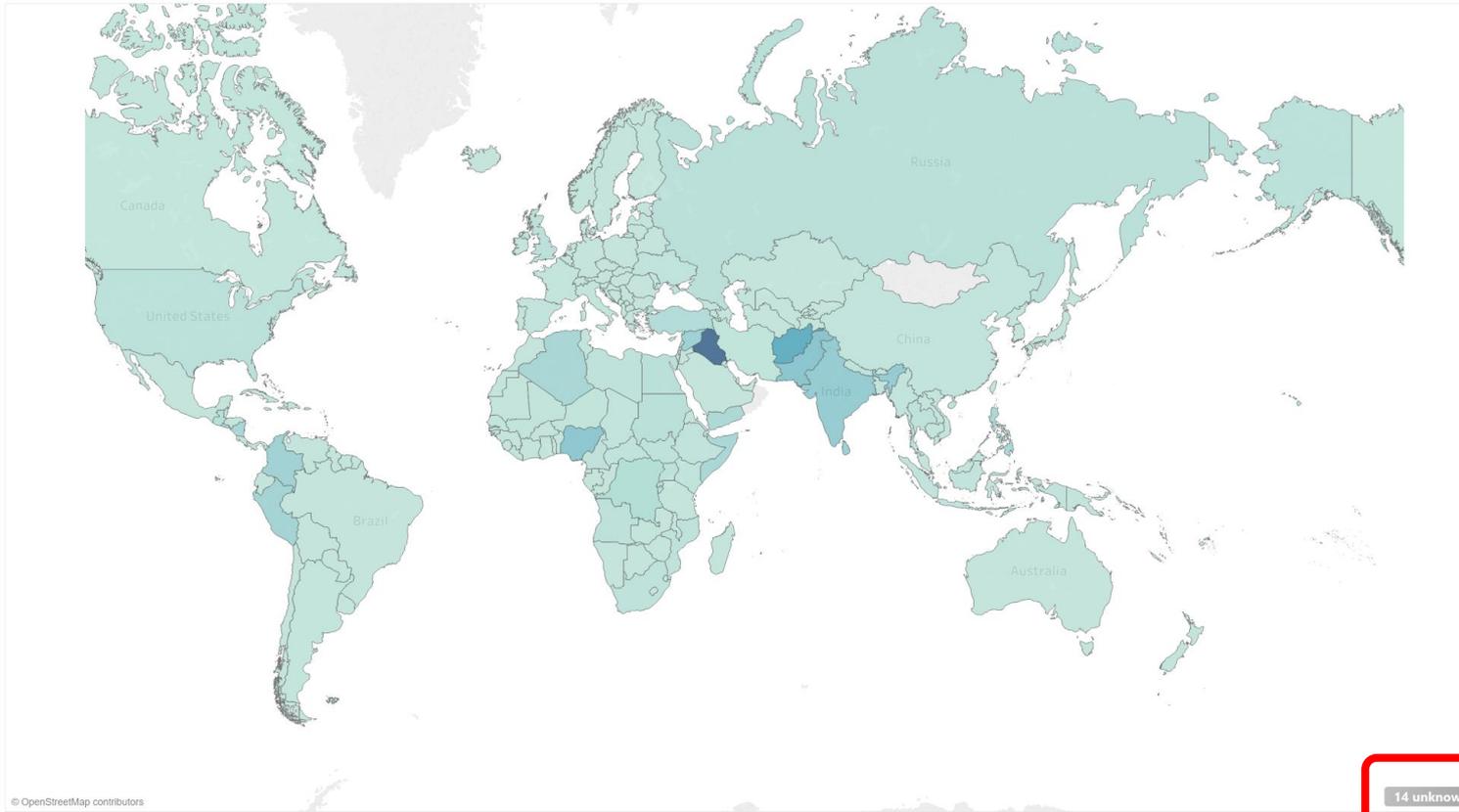
country_txt

SUM(nkill)

Longitude (generated)

Latitude (generated)

Numero di persone **uccise** da attacchi terroristici negli anni (1970-2017) suddivisi per paese
fonte GDT



Edit Locations ×

Geographic roles

Country/Region: ! 14 issues

Match values to locations

! Country/Region

Your Data	Matching Location
Czechoslovakia	Unrecognized
East Germany (GDR)	Unrecognized
International	Unrecognized
New Hebrides	Unrecognized
North Yemen	Unrecognized
People's Republic of the Congo	Unrecognized
Rhodesia	Unrecognized
Serbia-Montenegro	Unrecognized
South Vietnam	Unrecognized
South Yemen	Unrecognized

Show only unmatched locations in drop down list

Reset Matches OK Cancel

Unioni

- North Vietnam + South Vietnam > Vietnam; 1976
- East Germany + West Germany > Germany; 1989
- North Yemen + South Yemen > Yemen; 1990

Frammentazioni

- Yugoslavia > Bosnia Herzegovina; Croatia; Kosovo; Macedonia; Montenegro; Serbia.
- Czechoslovakia > Czech Republic, Slovakia
- Soviet Union > Russia; Azera; Armenia; Lettonia, Lituania, Estonia, Georgia, Bielorussia, Ucraina, Uzbekistan, Turkmenistan, Kazakistan, Kirgikistan, Moldavia.

Cambio di nome/confini

- Rhodesia > Zimbabwe
- People's Republic of the Congo > Republic of the Congo 1991
- West Bank and Gaza Strip
- New Hebrides > Vanuatu

Processo Iterativo nelle domande

Abbiamo visto:

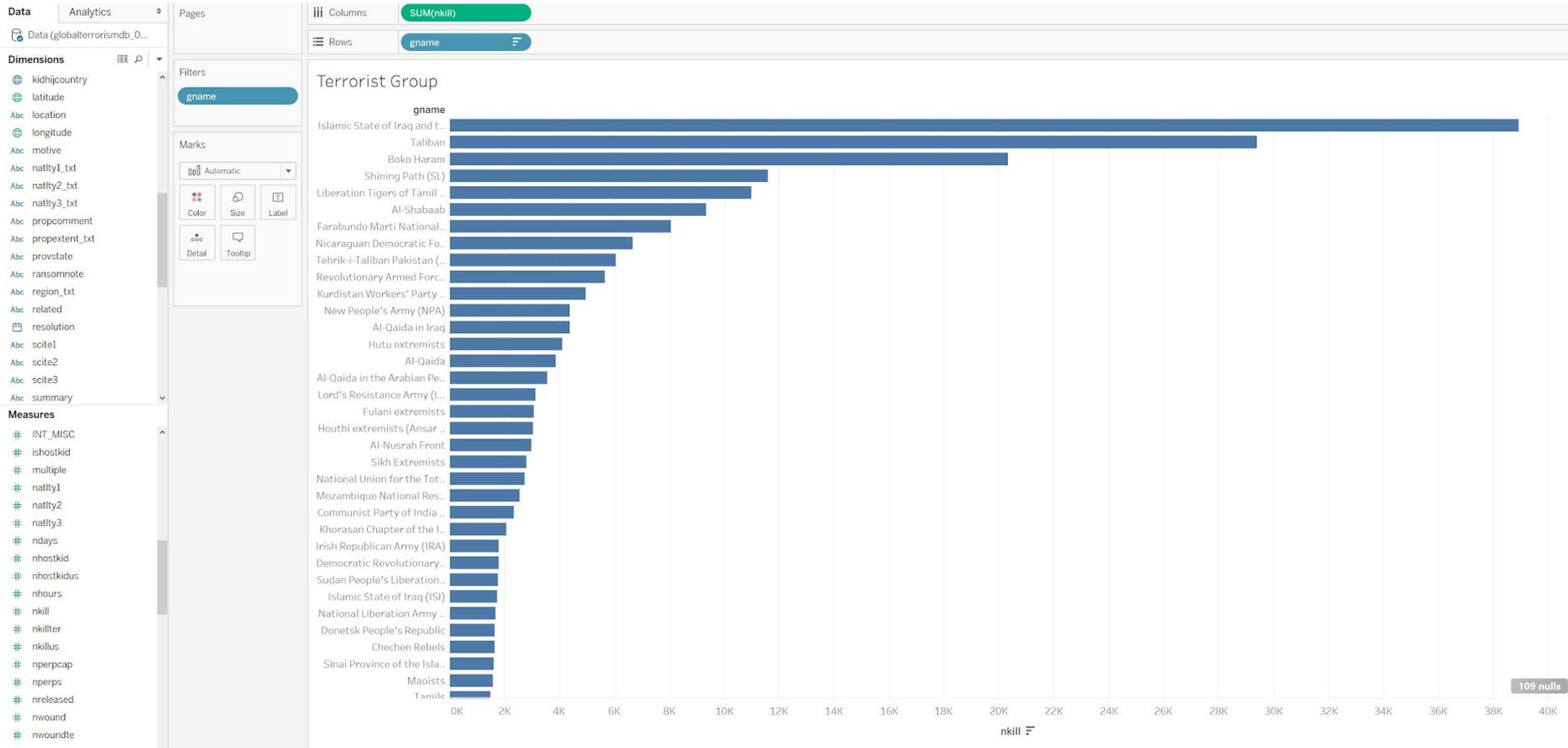
- Quante persone sono state uccise in attacchi terroristici negli anni?
- Quali sono gli stati dove sono state uccise più persone?

Possiamo chiederci:

- Quali gruppi terroristici sono stati responsabili dei maggiori attacchi?
- Quali sono gli attacchi terroristici più letali ?
- C'è stata una evoluzione nel tempo delle zone interessate dal terrorismo?

Gruppi terroristici responsabili dei
maggiori attacchi

Quali gruppi terroristici sono stati responsabili dei maggiori attacchi?



Attacchi terroristici più gravi

Assicurarsi che i campi **longitude** e **latitude** siano tra le **dimensioni** e siano riconosciuti come tali da Tableau

A screenshot of the Tableau interface showing a list of fields on the left and a context menu open over the 'longitude' field. The 'Add to Sheet' menu is expanded, and the 'Convert to Dimension' option is highlighted in blue. The 'longititude' field name in the list is also highlighted in green.

Dimensions

- Abc dbsource
- Abc divert
- Abc gname
- Abc gname2
- Abc gname3
- Abc gsubname
- Abc gsubname2

Measures

- # iday
- # imonth
- # individual
- # INT_ANY
- # INT_IDEO
- # INT_LOG
- # INT_MISC
- # ishostkid
- 🌐 **longitude**
- # multiple

Add to Sheet

- Show Filter
- Duplicate
- Rename
- Hide
- Create
- Convert to Discrete
- Convert to Dimension**
- Change Data Type
- Geographic Role
- Default Properties
- Group by
- Folders
- Replace References...
- Describe...

A screenshot of the Tableau Dimensions pane. The 'longitude' field is highlighted in green in the list. A context menu is open over it, with 'Geographic Role' selected. A sub-menu is also open, showing 'Longitude' as the selected option. The background shows a Tableau worksheet with 'Sheet 5' and a 'Drop field' prompt.

Dimensions

- Date
- Abc dbsource
- Abc divert
- Abc gname
- Abc gname2
- Abc gsubname
- Abc hostkidoutcome_txt
- # iyear
- 🌐 kidhijcountry
- 🌐 **latitude**
- Abc location
- 🌐 **longitude**
- Abc motive
- Abc natly1_txt
- Abc natly2_txt
- Abc natly3_txt
- Abc propcomment
- Abc propextnt_txt
- Abc provstate

Measures

- # crit1
- # crit2
- # crit3
- # doubttarr
- # eventid
- # extended
- # guncertain1
- # guncertain2
- # hostkidoutcome
- # iday
- # imonth
- # individual
- # INT_ANY
- # INT_IDEO
- # INT_LOG

Add to Sheet

- Duplicate
- Rename
- Hide
- Create
- Transform
- Convert to Discrete
- Convert to Measure
- Change Data Type
- Geographic Role**
- Default Properties
- Group by
- Folders
- Hierarchy
- Replace References...
- Describe...

Geographic Role

- None
- Airport
- Area Code (U.S.)
- CBSA/MSA (U.S.)
- City
- Congressional District (U.S.)
- Country/Region
- County
- Latitude
- Longitude**
- NUTS Europe
- State/Province
- ZIP Code/Postcode
- Create from

Double click on latitude e longitude



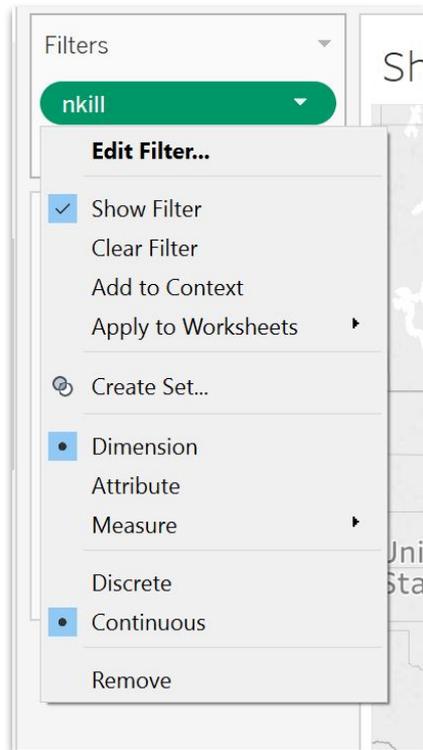
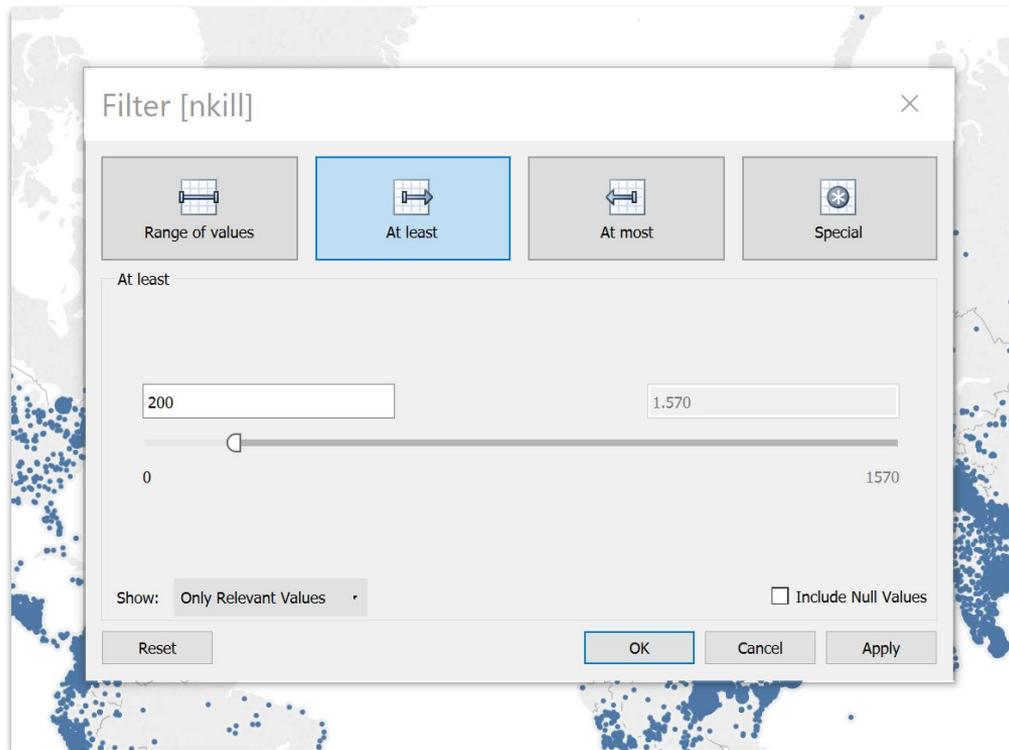
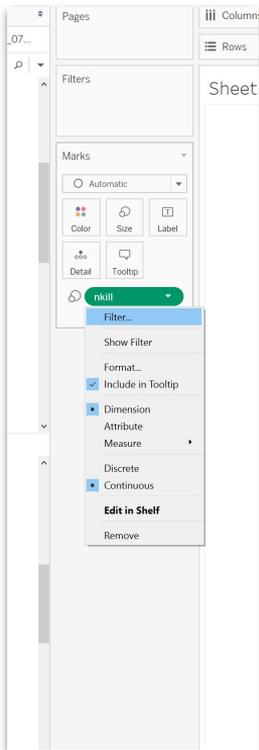
Trascina nkill su size

The screenshot shows the Tableau Desktop interface. The main view is a world map with blue dots representing data points. The 'Columns' shelf contains 'longitude' and the 'Rows' shelf contains 'latitude'. The 'Marks' card is set to 'Automatic' and has 'nkill' assigned to the size property. A context menu is open over 'nkill', with 'Dimension' selected. The 'Dimensions' pane on the left lists various fields, including 'nkill'. The 'Measures' pane is empty. The status bar at the bottom shows '983 marks' and '1 row by 1 column'. A text box is overlaid on the map with the text: 'Questa visualizzazione non è comprensibile Occorre inserire dei filtri'.

Questa visualizzazione non è comprensibile

Occorre inserire dei filtri

Inside Marks area click on nkill and select Filter, select At least 200.
Inside Filters area click on nkill and select show filter



Major Terrorist Attack

